

## PATENT ABSTRACTS OF JAPAN

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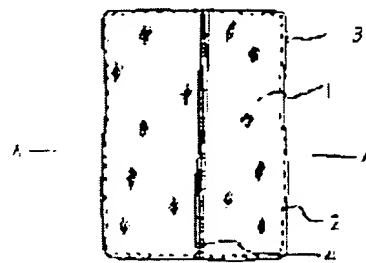
## (54) WASHING BAG FOR PREVENTING DEVIATION OF CONTENT

## (57)Abstract:

PROBLEM TO BE SOLVED: To provide a washing bag which enables washing of clothing free of shape collapse by inserting and fixing an inside bag which excels in liquid absorbing, liquid retaining, liquid removing and quick drying properties and is integrally and tightly adherable to the clothing therein without any odd feel at the time the bag is immersed in liquid in superposition with the clothing into a mesh-like outside bag which is hardly tightly adherable to the clothing in liquid.

SOLUTION: Net waves of synthetic fibers, such as nylon, polyester and acryl, or natural materials or their blending are used as the material of the outside bag 3. The materials which excel in the liquid absorbing, liquid retaining, liquid removing and quick drying, liquid permeable and air permeable properties, are strong to kink, friction and tension in the liquid and are integrally and tightly adherable to the clothing without the odd feel at the time the bag is immersed in liquid in superposition with the clothing are used as the material of the inside bag 2.

Such inside bag 2 is inserted and fixed to the outside bag 3, by which the washing bag 1 of a double structure is obtd. Such washing bag 1 is provided with an inlet/outlet port 4 which is freely operable and closable by fasteners or the like on one side. The approximately flatly shaped clothing is housed from the port into the washing bag and is subjected to washing.



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CLAIMS

[Claim(s)]

[Claim 1] If it is rich in absorbency, solution retention, deliquoring nature, quick-drying, dipping nature, and permeability and dips to a twist in a liquid, friction, and hauling in a liquid in piles with clothing strongly in a bag which puts in and uses clothing within laundry sink in the case of wash A bag for wash of a configuration of arbitration characterized by carrying out inner package immobilization without foreign body sensation at a bag outside a mesh-like raw material which is rich by dipping nature and cannot stick easily a PE liner of a raw material which carries out adhesion unification at inner clothing to clothing in a liquid.

[Translation done.]

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## DETAILED DESCRIPTION

## {Detailed Description of the Invention}

[0001]

{The technical field to which invention belongs} This invention relates to the bag for wash with which the clothing put into the bag for wash with stirring within laundry sink prevents inclining within a bag.

[0002]

{Description of the Prior Art} the bag for wash (henceforth the bag for wash) into which the clothing conventionally used in the inside of laundry sink is put -- the shape of a mesh, such as nylon, polyester, and a product made from an acrylic, -- the ground -- a rectangle or a triangle -- almost -- a football mold -- or many globular shapes or bags for wash of various gestalten by which sewing was carried out by carrying out the polymerization of the mentioned raw material again are marketed mostly.

[0003]

{Problem(s) to be Solved by the Invention} When washed by putting clothing into the conventional bag for wash, contents (clothing) considered the separate motion as the bag with stirring, on the other hand at the time of wash termination, the bag for wash boiled inner clothing, or it inclined toward ends etc., and became massive. Now, the cleaning effect was also doubtful and there was a damage also in clothing. Since it was such, contents did not incline, and a certain bag for wash was desired also for the cleaning effect.

[0004]

{Means for Solving the Problem} In order to attain the above-mentioned object in a bag for wash of this invention If it is rich in absorbency, solution retention, deliquoring nature, quick-drying, dipping nature, and permeability and dips to a twist in a liquid, friction, and hauling in a liquid in piles with clothing strongly It considered as a bag for wash of a configuration of arbitration characterized by carrying out inner package immobilization without foreign body sensation at a bag outside a mesh-like raw material which is rich by dipping nature and cannot stick easily a PE liner of a raw material which carries out adhesion unification at inner clothing to clothing in a liquid.

[0005]

{Embodiment of the Invention} the raw material of an outside bag (3) -- synthetic fibers, such as nylon, polyester, and an acrylic, natural raw materials, or these mix spinning -- a mesh -- textile and a common-name network -- what is called textile, and a coarse mesh -- dipping nature is good at textile, it is hard to stick with clothing into a liquid, and the strong ground which is equal to an activity in a liquid is chosen. If the raw material of a PE liner (2) is rich in absorbency, solution retention, deliquoring nature, quick-drying, dipping nature, and permeability and is strongly dipped to the twist in a liquid, friction, and hauling in a liquid in piles with clothing, the raw material which carries out adhesion unification with clothing without foreign body sensation will be used. For example, the lace fabric woven with a sheet-like nonwoven fabric with a network 1, a gauze cloth, or thin thread is considered. Let a PE liner (2) and an outside bag (3) be the bags for wash of the fixed dual structure (1). Especially if the method of immobilization is a method on condition of a PE liner (2) and an outside bag (3) carrying out the motion of about one body during wash, it will not be asked. Or there is also the method of equipping the inner surface of an outside bag (3) with a PE liner (2) selectively, without considering as saccate, and using as the bag for wash (1). Moreover, idea \*\* also use deformation of an about T shirt form, a trousers form, etc. as the bag for wash of dual structure (1) with which these were also fixed with the outside bag (3) for a PE liner (2).

[0006] Although it does not specify especially since receipts-and-payments opening (4) changes with configurations, considering receipts and payments of clothing, in the case of a rectangle, the location opened in right and left in the center is more desirable than the place near an edge. Moreover, there is also a method of preparing receipts-and-payments opening (4) on the rectangular diagonal line. Moreover, there is also the method of leaving a part of marginal perimeter and using other portions as receipts-and-payments opening (4). A fastener is suitable for receipts-and-payments opening (4).

[0007] Next, although another example is described, the raw material of the bag for wash in following (1) is not especially specified, although the raw material of the above-mentioned PE liner (2) or the raw material of an outside bag (3) is considered. How to arrange and equip the location of arbitration with two or more stops for a partition (5) which can be opened and closed inside the bag for wash of the configuration of arbitration (1) in a pair can be considered. With the clothing put into the bag for wash (1), since the location of the stops for a partition (5) to be used (11) is different, it opts for arrangement according to the object. Density of scattering is made [ many ] for using for multiple purposes. As for the stops for a partition (5), a tape snap, an American snap, or the so-called hook made from plastics etc. is considered. The object which does breakage to clothing is avoided.

[0008] Furthermore, as another example, there is the method of narrowing some bags for wash (1) lightly. This equips the inside or the outside of the bag for wash (1) with string through (6), and lets a string (7) pass. A string's (7)'s edge shall \*\*\*\* inside the bag for wash (1). There is also a method of equipping the location of the arbitration inside the bag for wash (1) with an inside belt (16), without preparing string through (6).

[0009] Furthermore, the method of dividing and preparing (9) which fixed to some places of the bag for wash (1) as another example again can be considered. This partition (9) is performed by suture. With the clothing put into the bag for wash (1), it considers as the arrangement to be used (11) corresponding to the object since it divided and the locations of (9) differed. For example, there are the way of dividing which distributes sleeve and body time, the way of dividing which distributes the leg of trousers.

[0010] In addition, after equipping with the outside stops (15) of a pair symmetrically and putting in clothing the edge of the outside surface of the bag for wash (1), an angle, or near it, the method of folding up the bag for wash (1) and stopping outside stops (15) is also. In

this case, there is also a method of equipping with string through (6) or an inside belt (16) collectively.

[0011] The raw material of the bag for wash (1) Absorbency, solution retention, deliquoring nature, quick-drying, dipping nature. The piece of cloth of the above-mentioned PE liner (2) and allotropy material which will stick without foreign body sensation and will be unified if it is rich in permeability and dips to the twist in a liquid, friction, and hauling in a liquid in piles with clothing strongly (10), synthetic fibers, such as nylon, polyester, and an acrylic, natural raw materials, or these mix spinning -- a mesh -- textile -- a common-name network -- what is called textile, and a coarse mesh -- the shape of a mesh of the strong raw material which dipping nature is good at textile, is hard to stick with clothing into a liquid, and is equal to an activity in a liquid -- there is also the method of using it as raw material which patched the ground (14). Furthermore, there is also a method of equipping with the stops for a partition (5), string through (6), and partition (9), an inside belt (16), or outside stops (15) the bag for wash of a raw material (1) and the bag for wash of dual structure (1) which were patched.

[0012] Moreover, there is also a method of preparing irregularity inside the bag for wash (1) or a PE liner (2). For example, you can make it dotted with a woolen yarn ball or a thing like \*\*\*\*, or how to take large and small darts and a large and small tuck can be considered from the inside of the bag for wash (1), or a PE liner (2).

[0013] The usage of this invention is described. Are rich in absorbency, solution retention, deliquoring nature, quick-drying, dipping nature, and permeability. The twist in a liquid, Dipping nature is good and sets a PE liner (2) for the raw material which will stick without foreign body sensation and will be unified if it dips to friction and hauling in a liquid in piles with clothing strongly in a liquid. If the clothing with which the form was mostly prepared to common at the bag (3) in the case of the bag for wash of the dual structure which carried out inner package immobilization (1) is dedicated at the bag for wash (1) and is dipped in wash liquid outside clothing and the raw material which is hard to stick, a PE liner (2) will be exactly stuck to clothing from the property of the raw material, and the PE liner (2) containing wash liquid wraps in clothing. When there are stops for a partition (5), after putting in clothing, it closes suitably. The part which is not closed by contents is good, released. It arranges uniformly into the bag for wash (1) (12), and comes out, and accessories clothing etc. closes the stops for an in-some-places partition (5). In the case of an inside belt (16) and a string (7), it extracts and stops so that they may be fastened lightly. In the case of big darts or a tuck, accessories etc. are inserted between them. When [ that it divides and there is (9) ] sutured, the clothing suitable for it is put in and each portion of clothing is dedicated to each partition (9). When there are outside stops (15), after preparing clothing to common mostly and dedicating to the bag for wash (1), with the bag for wash (1), it is made double fold etc. and outside stops (15) are stopped.

[0014]

[Effect of the Invention] Are rich in absorbency, solution retention, deliquoring nature, quick-drying, dipping nature, and permeability. \* The twist in a liquid. The PE liner (2) of the raw material which will stick with clothing without foreign body sensation, and will be unified if it is strong to friction and hauling and dips in a liquid in piles with clothing. If clothing is put in and it dips in wash liquid (13), it will unite with clothing so that clothing may be exactly wrapped in inner clothing from the perimeter in a ball up and a liquid, or so that it may insert, and will move to a motion of clothing at 1 in all clue. Therefore, the clothing of the inside which prepared the form etc. is washed, without confusing or (11) tangling.

\* Moreover, since it is hard to stick an outside bag (3) with clothing into a liquid, prevent sticking to other clothing and involving in during wash, and the clothing wrapped in the PE liner (2) is protected from the failure based on stirring under wash like special treatment, and tends to maintain an early condition. To wash of accessories, such as a product made of nylon, and clothing made from polyester, socks, it is especially safe.

\* Since the PE liner (2) and the outside bag (3) are being fixed, the PE liner (2) which wrapped clothing is independently unmovable in an outside bag (3), and a PE liner (2) does not become a lump as it is in a corner of an outside bag (3) again.

\* Since a PE liner (2) is rich also in solution retention, the layer holding wash liquid remains in the perimeter of clothing, and a cleaning effect and its foaming are good. Moreover, the deliquoring effect is also high and there is no failure also in a rinse.

\* Since there is no foreign body sensation if it is in a liquid when a nonwoven fabric sheet is used for a PE liner (2), there is no sensibility that the excessive object is washed together to machine washing in the case of a restroom.

\* If a nonwoven fabric sheet is used for a PE liner (2), while cloth cuts and settlement of an eye is unnecessary, since it is not frayed while in use, trouble can be saved in a manufacture process.

\* Since a PE liner (2) is rich in deliquoring nature, even if it is in the condition of the raw dryness immediately after dehydration, it has a flare, and receipts and payments of inner clothing are easy for it again.

\* it was given to some places in a bag -- dividing -- business -- stops (5) -- it was fixed -- divide, and (9), irregularity, such as darts, or string through (6) or an inside belt (16) bars migration of the clothing in the bag for wash (1), and prevents a bias.

\* If the bag for wash (1) into which clothing was put again is folded into double fold etc., outside stops (15) are stopped, an extempore partition can be performed or accessories etc. are inserted between \* darts which will be in the condition of pressing down by the extempore inside belt, and bias-come to be hard, or a tuck, a bias can be prevented further.

[0015]

[Translation done.]